

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: RHUBARB POND	Lake Area (ha):	0.81
Town: PITTSBURG	Maximum depth (m):	1.1
County: Coos	Mean depth (m):	0.4
River Basin: Androscoggin	Volume (m ³):	3000
Latitude: 45°17'55" N	Relative depth:	1.1
Longitude: 71°05'08" W	Shore configuration:	1.25
Elevation (ft): 2305	Areal water load (m/yr):	137.0
Shore length (m): 400	Flushing rate (yr ⁻¹):	373.0
Watershed area (ha): 132.3	P retention coeff.:	0.16
% watershed ponded: 0.0	Lake type:	natural w/dam

<u>BIOLOGICAL:</u>	24 March 1994	2 August 1993
DOM. PHYTOPLANKTON (% TOTAL) #1	NO PHYTOPLANKTON	NET PHYTOPLANKTON
#2	SAMPLES ANALYZED	SPARSE - NO DOMINANT
#3		
PHYTOPLANKTON ABUNDANCE (cells/mL)		120
CHLOROPHYLL-A (µg/L)		1.22
DOM. ZOOPLANKTON (% TOTAL) #1	NO ZOOPLANKTON	NAUPLIUS LARVA 38%
#2	SAMPLES ANALYZED	DAPHNIA 38%
#3		
ROTIFERS/LITER		3
MICROCRUSTACEA/LITER		12
ZOOPLANKTON ABUNDANCE (#/L)		16
VASCULAR PLANT ABUNDANCE		Scattered
SECCHI DISK TRANSPARENCY (m)		1.1 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)	5.2	9.3
BACTERIA (E. coli, #/100 ml) #1		4
#2		
#3		

SUMMER THERMAL STRATIFICATION:

weakly stratified

Depth of thermocline (m): None
Hypolimnion volume (m³): None
Anoxic volume (m³): None

CHEMICAL:

Lake: RHUBARB POND

Town: PITTSBURG

	24 March 1994		2 August 1993	
DEPTH (m)	1.0		1.0	
pH (units)	6.2		6.3	
A.N.C. (Alkalinity)	18.3		4.5	
NITRATE NITROGEN	0.20		< 0.02	
TOTAL KJELDAHL NITROGEN	0.47		0.35	
TOTAL PHOSPHORUS	0.012		0.011	
CONDUCTIVITY (μ mhos/cm)	48.9		22.2	
APPARENT COLOR (cpu)	48		75	
MAGNESIUM			0.49	
CALCIUM			3.4	
SODIUM			< 1.0	
POTASSIUM			< 0.40	
CHLORIDE	< 2		< 3	
SULFATE	3		3	
TN : TP	56		32	
CALCITE SATURATION INDEX			3.8	

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1993

D.O.	S.D.	PLANT	CHL	TOTAL	CLASS
**	3	1	0	4	Oligo.

COMMENTS:

1. This is a remote pond that was sampled cooperatively with the NH Fish and Game Department. This is the most northern New Hampshire pond, located in the northern extremity of Pittsburg near the Maine, New Hampshire and Canadian borders.
2. No winter plankton samples were collected.
3. Access was via Champion logging company roads, approximately 15 miles from Route 3. The logging road ran below the dam and was washed out in this area.
4. This is a very shallow pond surrounded by wetlands.
5. Cryptomonas (50%) was the dominant genus of wholewater phytoplankton.

Rhubarb Pond

Pittsburg



all less than 5 feet

wetland

wetland

0

0.1

Km

111-210



